

# The University of Texas at San Antonio

## *Job Description*

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Job Title: Technology Research Analyst  
Code: 19841  
Salary Grade: 62  
FLSA: Exempt  
Department/Division: Institute for Cyber Security  
Reports To: In accordance with specific departmental policies.

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## *Summary*

Function: To provide assistance to researchers in the field of Cloud Computing, Cyber Security and Data Analytics.

Scope: Responsible for organizing and maintaining several cloud computing systems along with performing research in Next Generation Computing technologies.

## *Duties*

• Typical:

1. Provide the primary interface between researchers and department management in development and management of cloud computing systems including performing system studies, systems interactions, design system specifications, producing programs and systems, analyzing problems and creating tools for solutions.
2. Track the development of various Cloud Computing, Cyber Security and Data Analytics research projects and reports progress to management.
3. Install/Maintain/Upgrade computing facilities, infrastructure, hardware, and software including operating systems, cloud computing systems and Cloud Computing, Cyber Security and Data Analytics applications.
4. Provide technical expertise to researchers to include performing experiment research as part of their projects.
5. Provide a continual level of experimental research in the fields of Cloud Computing, Cyber Security and Data Analytics.
6. Provide continual support to include ensuring data integrity; perform cost analysis of critical systems; maintain, backup, restore, and secure critical systems; maintain a secure environment; prepare and execute test plans.

- Periodic:

1. Provide training to researchers.
2. Perform other duties as assigned.

***Education***

<b>Required</b>	<b>Preferred</b>
Bachelor's Degree in related field	Graduate Degree or in current pursuit of graduate degree in related field

***Other Requirements***

<b>Required</b>	<b>Preferred</b>
Criminal Background Check (CBC)	N/A

***Experience***

<b>Required</b>	<b>Preferred</b>
Three years of experience in programming with at least two years of experience working in two or more of the following programming languages: C, C++, Java, Shell Scripting, Python, Ansible.	Three years of experience in programming, systems design, and analysis.
	Experience in Open Source development.
	Experience in experimental research (including publications).
	Proficient in Python, Ansible and Shell Scripting.
Experience in working with OpenStack technologies	Experience working with Keystone Identity Service and Devstack for OpenStack development.
Experience in working with HortonWorks Data Platform (HDP)	Experience in installation/configuration and usage of HDP for Big Data Analytics.

***Equipment***

<b>Required</b>	<b>Preferred</b>
Knowledge in the capabilities and requirements of Big Data Analytics <b>and</b> Cloud Computing architectures.	Knowledge in the capabilities and requirements of HortonWorks Data Platform (HDP) <b>and</b> OpenStack Cloud Computing architectures.

***Working Conditions***

<b>Usual</b>	<b>Special</b>
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Usual conditions associated with programming, server maintenance in a data center, and experimental research.	May require working long periods of time.
	May require working in tight/confined spaces.
	May require working in loud spaces.
	May require working in cold spaces.

***Supervision***

<b>Received</b>	<b>Given</b>
Works at the highest levels of technical aspects of systems analysis with minimum supervision.	Direct and/or indirect supervision of assigned staff.
Assumes responsibility for projects.	

***Accuracy***

High degree of proficiency required in all phases of work and research.
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***Security Sensitive***

Specific job requirements or physical location of some positions allocated to this classification may render the position security sensitive, and thereby subject to the provisions of section 51.215 Texas Education Code.
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***Internal Control***

Within the scope of position duties, responsible for seeing that operations are effective and efficient, assets are safeguarded, reliable financial data is maintained, and applicable laws, regulations, policies, and procedures are complied with.
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